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(54) **INDUSTRIAL PRINTHEAD**

(57) An industrial printhead comprising an array of piezoactuated flow channel dispensers enclosed in a chamber with a multi-orifice plate allowing fluid exit.

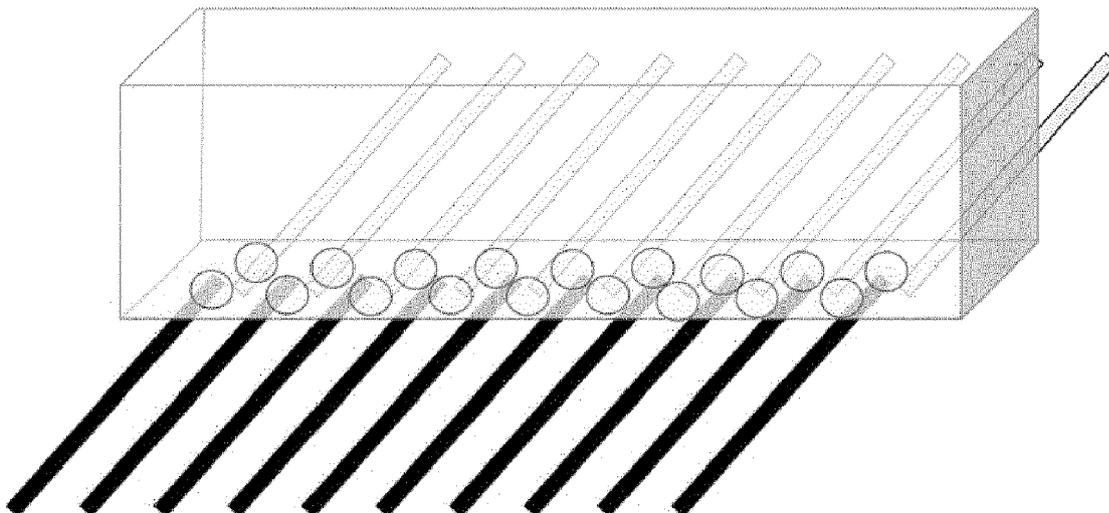


Figure 1

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EUROPEAN SEARCH REPORT

Application Number

EP 21 20 8936

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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X	RO 130 415 A2 (SZENTE SANDOR [RO]) 30 July 2015 (2015-07-30) * page 3, line 15 - line 17 * -----	1, 3	
X	EP 1 514 685 A1 (FUJI PHOTO FILM CO LTD [JP]) 16 March 2005 (2005-03-16) * figure 3 * -----	9, 10	
X	EP 1 410 912 A1 (SAMSUNG ELECTRONICS CO LTD [KR]) 21 April 2004 (2004-04-21) * figure 5 * -----	9, 10, 12	
X	DE 103 53 112 A1 (METEC INGENIEUR AG [DE]) 30 June 2005 (2005-06-30) * figure 3 * -----	9, 11	
X	US 6 065 825 A (ANAGNOSTOPOULOS CONSTANTINE N [US] ET AL) 23 May 2000 (2000-05-23) * figure 5 * -----	9-11	TECHNICAL FIELDS SEARCHED (IPC) B41J
----- The present search report has been drawn up for all claims -----			
Place of search The Hague		Date of completion of the search 17 June 2022	Examiner Bardet, Maude
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

EPO FORM 1503 03:82 (P04C01)



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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

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Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

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No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

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LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

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see sheet B

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All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

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As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

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Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

1-3, 9-12

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None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

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The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).

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**LACK OF UNITY OF INVENTION
SHEET B**

Application Number
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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

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1. claims: 1-3

specific dimensions of the flow channel

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2. claims: 4-8

cross section shape of the flow channel

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3. claims: 9-12

controlling the temperature of the flow channel tip

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ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

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5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

17-06-2022

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